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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

KEVIN CRATHER ET. AL.

CASE NO.: CL1610USNA

APPLICATION NO.: 10/643254

CONFIRMATION NO.: 4632

GROUP ART UNIT: UNKNOWN

EXAMINER: UNKNOWN

FILED: August 18, 2003

FOR: APPARATUS, SYSTEM AND METHOD FOR MAKING HYDROGEL PARTICLES

INFORMATION DISCLOSURE STATEMENT

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P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

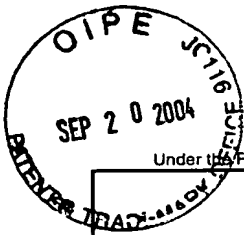
In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A and PTO/SB/08B forms. Also, attached please find a copy of the International Search Report and copies of those references cited therein.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

LINDA AXAMETHY FLOYD
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Dated: 17 September 2004



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10/643254
CL1610USNA
Information Disclosure Statement
PTO/SB/08A - 2 forms
PTO/SB/08B - 1 form
International Search Report
References (39)

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Application Number	10/643254
Filing Date	August 18, 2003
First Named Inventor	KEVIN CRATHER ET. AL.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	CL1610USNA

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Sheet	2	of	2	Attorney Docket Number	CL1610USNA
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[illegible][illegible]Date
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STATEMENT BY APPLICANT**

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Sheet 1 of 1

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Application Number	10/643254
Filing Date	August 18, 2003
First Named Inventor	KEVIN CRATHER ET. AL.
Group Art Unit	
Examiner Name	
Attorney Docket Number	CL1610USNA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

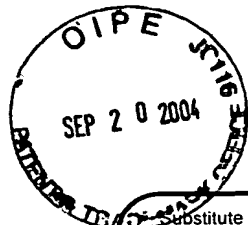
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WILLER DE OLIVEIRA ET AL., Journal of Applied Polymer Science, vol. 6:63-73, 1996, Hydrogels From Polysaccharides I Cellulous Beads for Chromatographic Support	<input type="checkbox"/>
		HARRY R. BRANDENBERGER ET AL., Biotechnol. Prog., vol. 15:366-372, 1999, Immobilization of Highly Concentrated Cell Suspensions Using the Laminar Jet Breakup Technique	<input type="checkbox"/>
		MICHAEL Z.-C. HU ET AL., Biotechnol. Prog., vol. 13:60-70, 1997, Biosorption of Uranium by Pseudomonas aeruginosa Strain CSU Immobilized in a Novel Matrix	<input checked="" type="checkbox"/>
		J. TRAMPER, Trends in Biotechnology, vol. 3:45-50, 1985, Immobilizing Biocatalyst for Use in Syntheses	<input type="checkbox"/>
		ULF PRÜBE ET AL., Biotechnology Techniques, vol. 12, no. 3:105-108, 1998, The Jet Cutting Method as a New Immobilization Technique	<input type="checkbox"/>
		DOUGLAS. B. SEIFERT ET AL., Biotechnol. Prog., vol. 13:562-568, 1997, Production of Small, Monodispersed Alginate Beads for Cell Immobilization	<input type="checkbox"/>
		S. F. D'SOUZA, Indian J. Microbil., vol. 29(2):83-117, 1989, Immobilized Cells: Techniques and Applications	<input type="checkbox"/>
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Sheet 1 of 2

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First Named Inventor	KEVIN CRATHER ET. AL.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	CL1610USNA

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
		US - 3,846,529 A		11-05-1974	POTEET, III	
		US - 5,028,224 A		07-02-1991	PIEPER et al.	
		US - 5,429,788 A		07-04-1995	RIBBLE et al.	
		US - 4,639,423 A		01-27-1987	KAHLERT et al.	
		US - 2,254,237 A		09-02-1941	NASH et al.	
		US - 3,014,246 A		12-26-1961	COOK et al.	
		US - 3,029,466 A		04-17-1962	GUILL	
		US - 3,070,835 A		01-01-1963	ALSYS	
		US - 3,207,818 A		09-21-1965	MARSHALL	
		US - 3,316,590 A		05-02-1967	RETTIG	
		US - 5,609,892 A		03-11-1997	GARCIA et al.	
		US - 3,341,892 A		09-19-1967	MAYNER	
		US - 3,709,641 A		01-09-1973	SAREM	
		US - 4,025,252 A		05-24-1977	HUNKE	
		US - 4,245,972 A		01-20-1981	ANDERS	
		US - 4,461,737 A		07-24-1984	VOSS	
		US - 4,580,967 A		04-08-1986	GUTIERREZ-RUBIO	
		US - 4,846,644 A		07-11-1989	LIN	
		US - 4,850,835 A		07-25-1989	RUDOLPH	
		US - 5,143,673 A		09-01-1992	GRIMMINGER	
		US - 5,215,763 A		06-01-1993	MATTERA	
		US - 5,611,983 A		03-18-1997	MA et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		CountryCode ³	Number ⁴ Kind Code ⁵ (if known)				
			DD 253 244 A1	01-13-1988	LOTHAR et al.		<input type="checkbox"/>
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